SITE TECHNICAL BULLETIN

DATE: March 25, 1992 **NUMBER:** STB-FSAS-030

SYSTEM/TYPE: FSS

SUBJECT: MODEL 1 FULL CAPACITY MODEM THUMBWHEEL CONFIGURATION

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1. PURPOSE. This site technical bulletin (STB) is distributed to flight service data processing subsystem (FSDPS), FA-10017, and aviation weather processor (AWP), FA-10020, sites to indicate the correct thumbwheel switch settings for their RM-9600EFP modems.

2. DISTRIBUTION. FSDPS and AWP distribution lists.

3. REFERENCES.

a. Order 6490.15B, Maintenance of Flight Service Automation System Model 1 Full Capacity Equipment.

b. TI 6490.38, Model 1 Full Capacity Flight Service Automation System, RM-8E Multiple Modem System Instruction Book.

4. DESCRIPTION OF PROBLEM. Not applicable.

5. SITE APPLICATION. All FSDPS and AWP sites.

6. CONTENTS.

ITEM	DESCRIPTION	QUANTITY
Attachment	Model 1 Full Capacity 9600EFP Modem Thumbwheel Settings	1

7. ACTION. This document should be retained at all FSDPS and AWP sites, and referenced when additional sites are added to a circuit.

8. HARDWARE IMPACT. Not applicable.

9. CLARIFICATION OR COMMENTS. For further information or comments, please contact the National Automation Engineering Field Support Division, ASM-400, on FTS 482-HELP or commercial (609) 484-HELP.

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Attachment

DISTRIBUTION: Selected Airway Facilities Field and Regional Offices **INITIATED BY:** ASM-450

ATTACHMENT

Model 1 Full-Capacity 9600EFP Modem Thumbwheel Settings

The Universal Data Systems (UDS) model RM-9600E FP (96FP) modem is a 9600 bit-per-second, synchronous modem conforming to CCITT V.29 and Bell 209 standards. Each modem interfaces between both AWP sites and several Model 1 Full Capacity FSDPS sites via eight multipoint networks designated as one of the following names; EA, EB, EC, ED, WA, WB, WC, or WD. For each of these eight networks, one modem is the master modem while all others are configured as slave modems. A thumbwheel switch is located on the front panel of each modem. The thumbwheel switch and the Modem Operating Mode jumper must be set to the value indicated in this document for normal network operations.

The value on the thumbwheel switch is used when that circuit is first opened. The master modem initializes with each slave modem, up to the number (of sites) specified on the thumbwheel switch. Each slave modem responds to the master modem's initialization and establishes line parameters for future fast retrains. Fast retrains occur each time a slave modem raises carrier to respond to a poll.

Master 96FP Modems - Master AWP

Ensure that the Modem Operating Mode jumper is set to "MS". This establishes this modem as the master of a multipoint network, such as circuit EA.

The thumbwheel selector switch, on a master site modem, is set to a value equal to the number of slave modems connected to that unique circuit. As new M1FC sites are installed this number will increment until all sites are connected. The thumbwheel switch value should be set to the current number of FSDPS sites connected to that circuit, plus one, for the slave AWP modem.

Four of the 96FP modems at each AWP will be configured as master modems. The remaining four 96FP modems will be slave modems to the other AWP.

Slave 96FP Modems - FSDPS and Slave AWP

Ensure that the Modem Operating Mode jumper is set to "SLV". This establishes this modem as one of the slave modems of a multipoint network, such as circuit EA.

The slave modem thumbwheel selector switch on the front of the 96FP modem is set to a unique value for each circuit so that two slave modems do not have the same value. Slave modem thumbwheel settings are specified in table 1 and table 2.

Table 1. A & B Network Thumbwheel Setting

Circuit EA & EB, East Network, Atlanta master
Circuit WA & WB, West Network, Salt Lake master

Thumbwheel	Site
1	ACY FAATC ACY-1
2	ZAU Aurora/Chicago
3	ZID Indianapolis
4	ZTL Hampton/Atlanta
5	ZOB Oberlin/Cleveland
6	ZDC Leesburg/Washington
7	ZNY Ronkonkomo/New York
8	ZMA Miami
9	ZBW Nashua/Boston
10 or A	ZJX Hilliard/Jacksonville
11 or B	ZME Memphis
12 or C	ZMP Farmington/Minneapolis

Table 2. C & D Network Thumbwheel Setting

Circuit EC & ED, East Network, Atlanta master
Circuit WC & WD, West Network Salt Lake City master

Thumbwheel	Site
1	ACY FAATC ACY-2
2	OKC Academy AT
3	ZKC Olathe/Kansas City
4	ZLA Palmdale/Los Angeles
5	ZAN Anchorage
6	ZFW Fort Worth
7	ZHU Houston
8	ZLC Salt Lake City
9	ZSE Auburn/Seattle
10 or A	ZAB Albuquerque
11 or B	ZOA Fremont/Oakland
12 or C	ZDV Longmont/Denver

The value set at both AWP sites will change as new FSDPS sites are added to each circuit. The current number at each AWP should be set to the number of FSDPS sites on that circuit, plus one; i.e., 5 sites should be set for the number "6". This formula applies to both Master and Slave AWP modems.

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